

IN THE SPECIFICATION

Please amend paragraph [0021] as follows:

[0021] As shown more specifically in FIG. 1, a schematic diagram of an image forming apparatus of the exemplary embodiment of the invention is shown. A developing system of the exemplary embodiment utilizes dry, two-component developer. The developer includes a non-magnetic toner and a magnetic carrier. An image apparatus ~~[[5]]~~ 34 provides four color images in an overlapping manner to provide a composite color image to a transfer belt. To this end, a transfer belt carries an image corresponding to each one of the color image drums for creating the composite image on a recording medium as explained below.

Please amend paragraph [0022] as follows:

[0022] Upon actuation of the device by the initiation of a "print" command or the like, a recording medium is provided from feed tray 19 in the lower part of the apparatus ~~[[5]]~~ 34 to a conveying path A with the help of rollers 16 and 17. Each photoconductor 1 is charged uniformly about its surface by a charging device 2 and the surface of the photoconductor is exposed to receive image data by a writing unit 3. The exposure pattern formed on the photoconductor 1 is referred to herein as a latent image. A latent image is formed on a corresponding one of the photoconductors such that a specified color image may be formed respectively therein. For example, in the exemplary embodiment, each of the four photoconductors 1 corresponds to the colors black, yellow, magenta and cyan. In this way, the toner image developed on the photoconductor is transferred to the transfer belt 8 at a contact point between transfer roller 5 and the photoconductor 1. Thus, a full-color toner image is formed on the transfer belt 8 by repeating this process with respect to each photoconductor 1. The full-color toner image formed on the intermediate transfer belt 8 is

transferred to the paper conveyed by roller 14 along conveying path A. Those skilled in the art will recognize that the specific colors, number of ~~colors~~ colors and number of photoconductors 1 described herein may be varied based on a desired application.

Please amend paragraph [0030] as follows:

[0030] In another exemplary embodiment, the second type of measuring device may be a resistance measurement device. An exemplary resistance measure device is shown in Fig. 4. In the exemplary resistance measurement device, a facing electrode 28 is disposed on a side wall of the developer device 4 to provide a developer flow between the side walls. The measuring device measures resistance by providing an electric current through the two-component developer by adding a bias voltage to electrode faces ~~[[28A]]~~ 28a. The degree of developer deterioration is judged by the resistance value of the developer which changes in accordance with the distribution of carrier and toner in the two-component developer. As the resistance value of the developer will vary according to toner density, likewise, toner density is determined by sensor 23 to utilize the output of the resistance measurement sensor accurately to determine developer deterioration. Likewise, the resistance value varies according to toner density, thus new developer toner density is determined.

Please amend paragraph [0035] as follows:

[0035] Furthermore, the image formation condition, or combination of conditions, that is/are selected to vary can depend on the degree of developer deterioration. Moreover, an image condition which may be adjusted alone, or in combination with others, is developing bias. Referring now more specifically to Fig. 6, an electric current potential relation is shown. VD is a dark space potential determined by a charging bias, VL is a bright

space potential determined by an exposure power, and VB is a developing potential determined by a developing bias. The shaded region of Fig. 6 shows a quantity of toner determined by VB. The region between VB and  $[[VO]] \underline{VD}$  shows a toner quantity adheres to a latent carrier 1. As can be appreciated, it is possible to change a quantity of adhered toner by adjusting the developing bias VB. So, to adjust the developing bias, adjust the developing ability which negates changes in Q/M caused by developer deterioration.

Please amend paragraph [0042] as follows:

[0042] In the exemplary embodiment, a method to display a notice indicating the need for interchanging of developer either by the user or a skilled service person is provided. If the functionality of interchanging a developer device 4 directly and a developer tank with a developer can be made by the user, then it is possible to avoid exhausting the developer from the developer device 4. A method to alarm the management center 33 of needed service via a communication line 32 is utilized, e.g., with copy machines, maintained by service persons, known to those skilled in the art. In this way, the management center can be notified by a notice device 30 of needed service to the machine without user intervention, and dispatch a service person to immediately interchange a developer. Likewise, a message or alert may be provided to a control panel or display window of the apparatus.